

FIG.1A-3

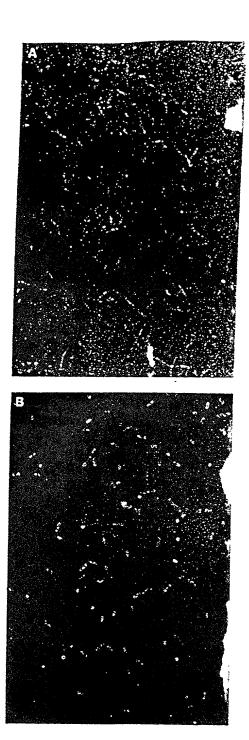


FIG. 2A-B

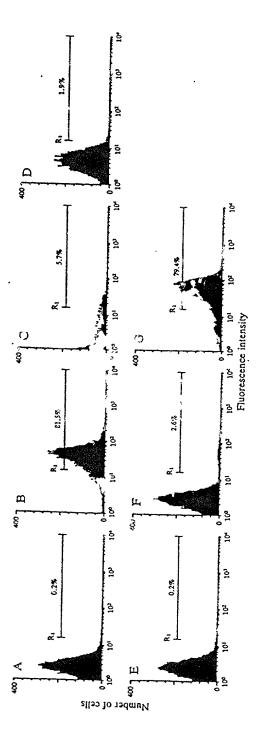
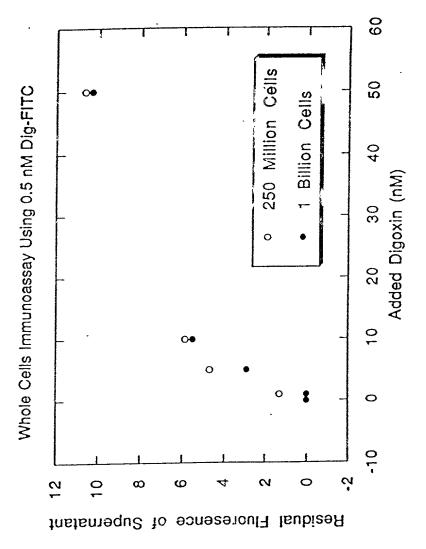
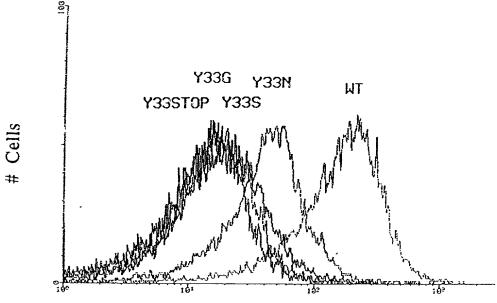


FIG. 3A-G





Relative Fluorescence Intensity

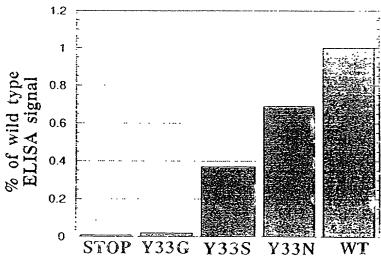
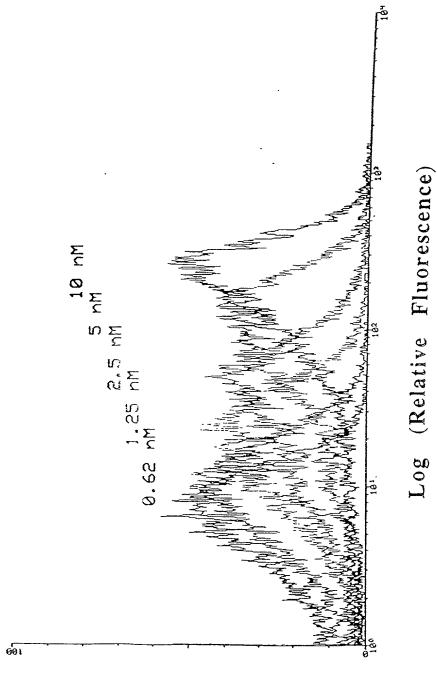
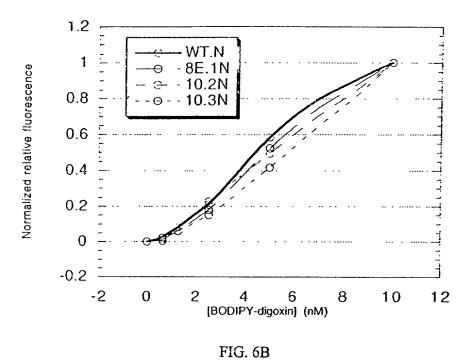


FIG. 5A-B



Cells #



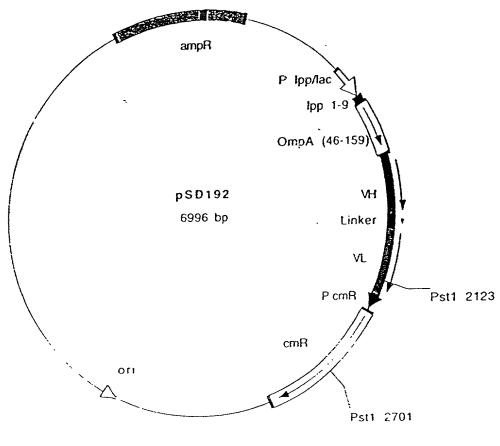
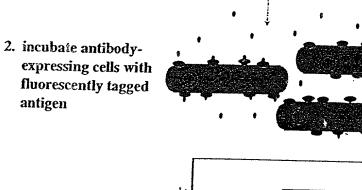
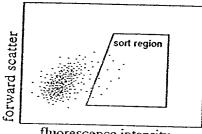


FIG. 7

1. transform plasmid scFv library and amplify by growth

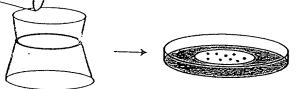


3. sort high - fluorescence cells by FACS

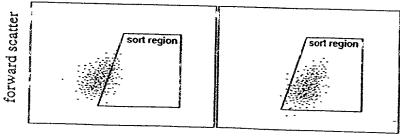


fluorescence intensity

4. collect sorted cells by filtration and amplify on an agar plate



5. assay colonies for highaffinity antigen binding by flow cytometry



fluorescence intensity

FIG. 8

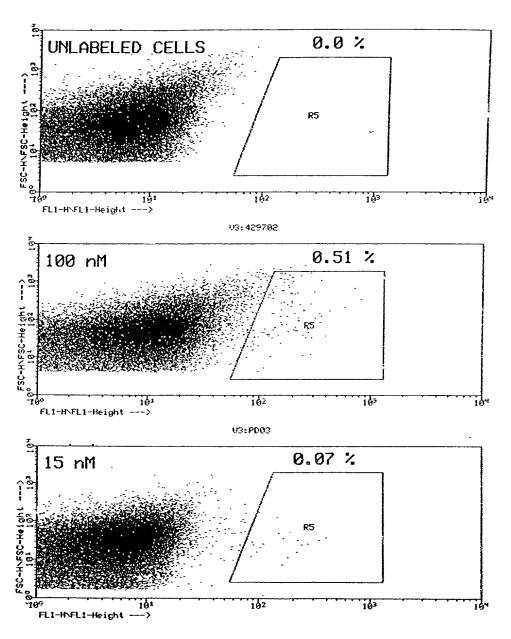


FIG. 9A-C

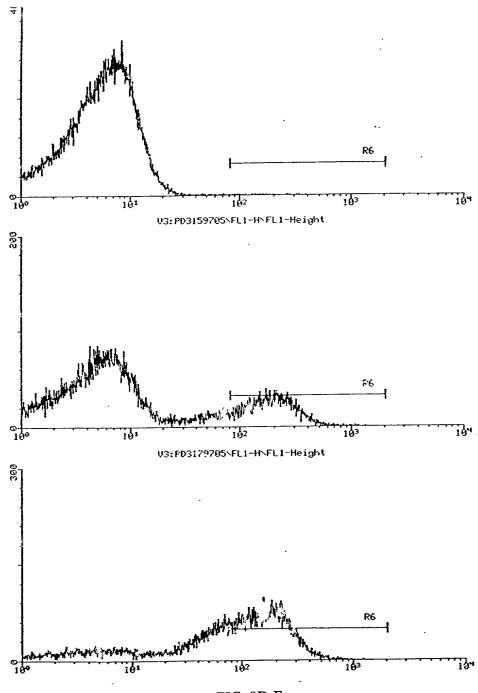


FIG. 9D-F

TETRAMETHYLRHODAMINE-BODIPY SUBSTRATE

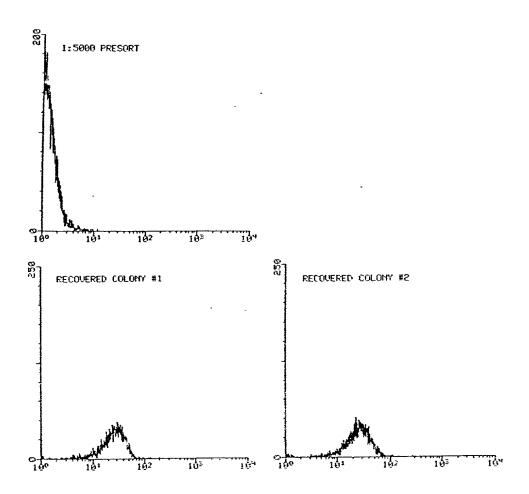


FIG. 12A-C